



# The Raleigh Amateur Radio Society's **EXCITER**

## GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 p.m. in place of the RARS net.
- RARS meets for a monthly dinner on the First Tuesday of each month.

## 2014 PUBLIC SERVICE EVENTS

Aptalis CF Cycle for Life: Oct. 11

Tarwheels Fall Rally: Oct. 19

PPD Beach 2 Battleship Triathlon: Oct. 25

Makin' Room for Turkey Ride 2014: Nov. 23

Interested in helping? Visit <http://www.rars.org/public-service.php> for more information.

## RARS General Meeting

**Topic:** RARS Auction led by Rick Kelly-Crapse, KB4TKQ

**Date:** Tuesday, October 14, 2014

**Time:** Registration at 6:40 p.m., Meeting at 7:15 p.m.

*Informal gathering and refreshments from 6:45-7:15*

**Where:** Ridge Road Baptist Church, 2011 Ridge Rd., Raleigh



## RARS Auction

The annual RARS auction will be held October 14. Rick Kelly-Crapse, KB4TKQ, will be the auctioneer. For details on how the auction works and what you need to do before and during the auction, visit <http://rars.org/auction.php>. You can also register your items here: <http://rars.org/AuctionForm2.php>. See you at the auction! --Tom N4TL

## 57th Jamboree-On-The-Air

**October 17-19, 2014**

*For more information, visit the following links:*

*ARRL JOTA home page ...*

<http://www.arrl.org/jamboree-on-the-air-jota>

*BSA JOTA home page ...*

<http://www.scouting.org/jota.aspx>



## Show Your Support of the Amateur Radio Parity Act of 2014--H.R. 4969

**H**urry! Hurry! Time is almost out to write a letter showing your support of H.R. 4969. Introduced by Adam Kinzinger (R-IL) as sponsor and Joe Courtney (D-CT) as co-sponsor in June 2014 to the 113th Congress, H.R. 4969—the Amateur Radio Parity Act of 2014 in June 2014 would direct the FCC to extend the “reasonable accommodation” provisions for amateur radio antennas to include all types of land-use regulation, including deed restrictions and restrictive covenants, including those of home owners’ associations.

According to the ARRL website, constituent letters urging U.S. House of Representatives members to co-sponsor **H.R. 4969** need to arrive at ARRL Headquarters by Friday, September 12, for

See **H.R. 4969**, p. 4

## RARS Officers

### PRESIDENT

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### VICE PRESIDENT

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## The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website ([www.rars.org](http://www.rars.org)).



## Exciter

The *Exciter* is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at [www.rars.org](http://www.rars.org). Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The *Exciter* welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's *Exciter* is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the *Exciter* are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Cathy Downs, KA3QPU, editor ([editor@rars.org](mailto:editor@rars.org))

## For Your Information

### RARS General Meeting

**Date:** **Second** Tuesday of each month

**Location:** Ridge Road Baptist Church

2011 Ridge Road  
Raleigh, NC, 27607

**Time:** People begin arriving at 7 p.m.  
The meeting officially begins at  
7:30 p.m.

### RARS Monthly Dinner

Join us on the **first** Tuesday of each month for the RARS dinner. It's open to everyone: RARS members, non-members, friends, and family. Feel free to bring your little ones! Dinner begins at 6:30 p.m.

Listen to the nightly RARS net and check [www.rars.org](http://www.rars.org) for details on the next dinner's location.

### RARS Repeaters in Raleigh

146.640 & 443.625 (88.5 PL)

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

### VE Testing

The RARS VEs will accept walk-in testing in May, August and November (location to be announced); the RARSfest in April; the Cary Swapfest in July; the JARSfest in November; and following RARS license classes.

Please bring a photo ID, your current license, a copy of your current license, your \$14 exam fee, and any CSCEs you have for credit. Visit [www.rars.org](http://www.rars.org) for more information.

## Message from the President

I want to put a bug in your ear about Jamboree on the air, or JOTA, which will take place October 17-19 this year.

JOTA offers a way for boy and girl scouts and guides to connect with other people all over the world via amateur radio. The success of JOTA rests on many shoulders, most notably on scout leaders and parents who are aware of amateur radio and encourage scouts to participate.

But they sure could use some help from the ham community. RARS members and friends who are so inclined can help set up stations so that the youth have a way to get on the air.

If you have any questions, please contact the RARS president. I speak from experience when I state that it is a lot of fun to answer a scout when they give a shout.

CJ, NC4CJ  
*RARS president*

## 2014-2015 Meeting Topics

### "US Naval Radio Communications--The 1950's Internet"

Nick England, K4NYW.....Sep. 9

### RARS Auction

Rick Kelly-Crapse, KB4TKQ.....Oct. 14

### Elections; "Frequency Standards and Accurate Frequency Measurement."

Doug Hall, K4DSP.....Nov. 11

Holiday Party.....Dec. 9

### World Radiosport Team Championship, July 8-14, 2014 ([www.wrtc2014.org](http://www.wrtc2014.org) & [pvrnc.org](http://pvrnc.org)).....Jan. 13

Nate Morschi, N4YDU President of PVRC-NC.

"How Antennas Radiate".....Feb. 10

Dan, WY3O, head of NCSU Department of Electrical and Computer Engineering

Awards, Birthday Party & RARSfest Update...Mar 10  
TBD

*Titles, topics, and speakers subject to change.*



## Amateur Radio Courses

*By Murray Merner, K4MHM  
RARS Education Director*

**T**he General Class course finished on August 16 and had eight registered students, pictured above.

The next course is the Amateur Extra Class of five sessions from 8:00 a.m. to 12:30 p.m. starting October 4, continuing on Oct. 11, 18, and 25, and ending November 1.

Contact Murray Merner, K4MHM, ([k4mhm@arrl.net](mailto:k4mhm@arrl.net)) to get on the e-mail list for that course announcement. It will be held in Raleigh, but the specific location has not yet been determined.

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**H.R. 4969**, continued from p. 1

forwarding to Congress. There's still time to send letters directly to your congressman

ARRL Regulatory Information Manager Dan Henderson, N1ND, said the last legislative day for the fall is September 19. Congress will not be back in session again until after the mid-term election.

For more information about this bill and ways you can support it, visit the ARRL webpage at [www.arrl.org/hr-4969](http://www.arrl.org/hr-4969).

The ARRL [Federal Legislative Activity](#) page has additional information about Amateur Radio Parity Act, HR-4969.

For a sample letter visit: <http://www.arrl.org/files/file/HR%204969/Draft%20letter.docx>.

[www.rars.org](http://www.rars.org)

## New RARS Members

Tom Stanton	KK4UHH
Charles Parrish II	KK4UHD
Bruce Hopfengardner	K6BDH
Amara Angelica	KF6TEJ
Glenn Carter	K4ABN
Stephen Carroll	KK4ZfZ

## September Birthdays

Jesse	KM4AMR	09/01
Dave	KK4BPM	09/02
Jimmie	KM4DJR	09/02
Wilbur	WD4RDT	09/03
Andy	KD4FHF	09/04
Mary Jo	K4MJL	09/05
Lou	K4BYN	09/07
John	N4YRB	09/12
Shawn	KM4AMV	09/12
Al	NC4AL	09/13
Sam	NC4SJ	09/13
Robert	W4MBD	09/16
John	KK4OOL	09/16
Don	K4MQE	09/17
Ken	N4ZBB	09/18
Rod	KI4LSN	09/20
Larry	K4MWE	09/22
Jason	KM4ARX	09/23
Justin	AJ4MJ	09/25
Steve	KI4YXJ	09/25
David	AB4MB	09/26
Gregory	KM4ASB	09/27
Leon	KB4KSA	09/27
William	KK4ZKS	09/30

Pictures by Tom Lewis, N4TL, from the July 8, 2014, RARS meeting:  
<https://www.flickr.com/photos/97551557@N08/sets/>

## Public Service Helps 5-0 Ride

By Charles Good, KM4AMT

**O**n Saturday, August 23, local amateur radio operators from RARS and other North Carolina clubs worked together to provide communications support at the 5<sup>th</sup> annual Five-O Memorial Bicycle Ride. This event was sponsored by Trek Bicycles of Raleigh to benefit the Raleigh Police Memorial Foundation.

The event consisted of two rides or routes: a 50 kilometer (32 mile) ride and a 100K (64 mile) ride. Approximately 470 people participated in the rides (essentially split evenly between the two).

Our Public Service Director, John Snellen, AI4RT, rolled up his sleeves and worked with others to divide the course into three patrol sectors and assigned two of the six Support And Gear (SAG) mobile units to each sector. The course also had three rest stops equal distance apart with the third rest stop at the far end of the 100K route (32 miles away from the starting point). All of our SAGs were in cars, but one volunteer was also a participant in the event, on a bicycle with an HT.

### Net Control

Net control was setup at the starting point of the rides (at the Trek Bicycle store). "The Net Control Operator coordinates the movements of the mobile SAGs to locations for rider pickups and determines where the rider will be dropped off.

We also ensure radio traffic is passed and received (especially when units cannot understand each other), maintain a log of the traffic, and notify-emergency services if needed."

"We logged several mechanical problems requiring a bike mechanic, one minor crash (a bike had a tire blow out and the rider went off the road, but was OK), a couple of heat related cramps, etc.

The 100K ride began at 8 a.m. and around noon time, we started getting reports of riders who had made it to the halfway point (~32 miles away) and were worn out (needed a ride back to the starting point).

We also had several reports about riders from another event, using some of the same routes as the

Five-0 event, and riders were becoming confused about which routes to take. We notified the event organizers, who then went out to those spots to help direct Five-0 riders and improve the road markers."

### About the Base Station

John's net control base station-consists of the following:

- Kenwood TM-V71A transceiver (dual band: 144/430 Mhz; max output: 50-watts)
- Mobile hand microphone (Also a Heil Traveler Headset with boom microphone for use when needed)
- An externally mounted loudspeaker
- Diamond SX40C Wattmeter/SWR Bridge
- An A.C- to-D.C. power supply.

All this is mounted on two shelves in a Gator box (see photo below). There is also a 12 volt, 35 amp hour gel cell battery external to the Gator box. John uses a modified theatrical light stand as his mast (extends 10 feet vertically),

which has a Diamond x300a dual band (2m/70c) vertical antenna mounted atop it. The connection was made using a small deploy/retrieve cable reel containing 50 feet of RG8x coax cable.

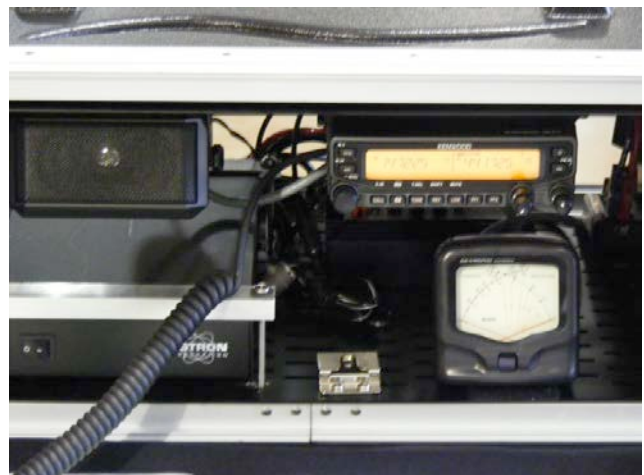
"By special permission of the repeater owners, we operated on two repeaters. Our primary repeater was 441.725 MHz (+)(100). Our alternate or secondary repeater was 444.925 MHz.

We discovered that the primary worked better for SAGs operating in sectors 1 and 2. For SAGs operating in the northern most sector 3, the

See **5-0 Ride**, p. 6



*John Snellen, AI4RT*



*John's Gator box containing the base station equipment.*

## Elmers' List

By Murray Merner, K4MHM

**T**en Elmers! And we have just begun! They are: Bob Chew, K4YXM; Wade Dorsey, KK4UGY; Wilbur Goss, WD4RDT; Rick Jackson, KB4RZ; Dennis Keith, NC4DK; Chuck Littlewood, K4HF; Tom, Magnani, KI4OTO; Fran Wyess, KY4W; and Marty Young, W4MY.

The Elmers List will be on the RARS website in the "Members Only" section.

We have hams who need to know what you know. You do not have to be the ultimate expert in everything ham. Just be willing to help another ham who needs a push in the right direction--someone to talk to about ham radio.

## New Ham Meeting

A meeting time for new hams will be from 6:00-7:00 p.m. before the regular meeting on the second Tuesday of the month.

Come and talk about ham stuff, ask questions, find resources.

Elmers are invited too!



Sign up so you can help someone who can benefit from your experience. Contact: Murray Merner, K4MHM, RARS Education Director at: [k4mhmn@arrl.net](mailto:k4mhmn@arrl.net).



The ARRL defines an Elmer as "someone who provides personal guidance and assistance to would-be hams."

We at RARS think this goes beyond "would-be-hams" and continues into assisting new hams.

Murray Merner is forming a core of Elmers for new hams in RARS. Please contact Murray at [mmmm0320@gmail.com](mailto:mmmm0320@gmail.com) and volunteer to be a RARS Elmer.

5-0 Ride continued from p. 5

We would like to recognize and thank the following volunteers who provided support:

ASSIGNMENT	NAME	CALL
Cycle Mobile	Phil Cunningham	AE4PC
SAG 1	Ray Albers	K2HYD
SAG 2	Tim Brown	W4TRB
SAG 3	Neill Laney	KK4TTR
SAG 4	Wade Gutreuter	KW4EMG
SAG 5	Wally Smith	KJ4UKV
SAG 6	Bob Chew	K4YXM
Rest Stop #1	Dan Sears	KD4AGQ
Rest Stop #3	Larry Holt	KG4FIQ

## 2014-15 Hamfests & Conventions

### Maysville Hamfest | Oct. 12

**Location:** Maysville, NC

**Website:** none

### BEACHFEST 2014 | Nov. 8

**Location:** Conway, SC

**Website:** <http://www.w4gs.org>

### North Carolina State Convention (43rd Annual RARSfest) | Apr. 4

**Location:** Raleigh, NC

**Website:** <http://www.rars.org/rarsfest>

### Blue Ridge ARS's 56th Annual Hamfest | May 2

**Location:** Spartanburg, SC

**Website:** <http://brars.org>

# Minutes

## Board of Directors Meeting *Raleigh Amateur Radio Society* *July 15, 2014*

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**Present:** Bob K4YXM, C.J. NC4CJ, John AI4RT, Karl W4CHX, Chuck K4HF, Tom N4TL, Joann AK4RT, Bill AK4BL

**Guests:** None

**Apologies:** Murray K4MHM

1. **Call to order (CJ NC4CJ):** The meeting was called to order at 7:41 p.m. There was a quorum present.
2. **Approval of minutes (CJ NC4CJ):** The minutes were approved as corrected. Some call signs were incorrect.
3. **Vice President's report (Tom N4TL):** Tom will publish a schedule for the rest of the year.
4. **Treasurer's report (Greg KE4PAX):** Greg emailed his report. The Financial review will be conducted in August in coming years so all records for the previous fiscal year will be available.
5. **Secretary's report (Bob K4YXM):** Recording device is in hand. Bob will not be available in August. John AI4RT will record the meeting.
6. **Committee reports:**
  - a. **ARRL Liaison (Chuck K4HF):** Chuck reviewed the preparations for start of the national convention. He also reviewed changes to VCC rules. Karl W4CHX spoke about HR4969.
  - b. **Education Director (Murray K4MHM):** No report
  - c. **Exciter Chair (Cathy KA3QPU):** Send articles
  - d. **Field Day Chair (Dennis NC4DK):** No report
  - e. **Food Service Chair (Joanne AK4RJ):** No report
  - f. **FM Repeater Chair (Karl W4CHX):** Karl W4CHX reported on the outcome of a conference call with Chuck, Danny and Karl. In summary, the 442.45 machine will be the first to come online. Will probably require four weeks to install at the Bayleaf site. The "64" machine can be installed in a matter of hours when the controller is ready. The exact plan for interlink between the 2m repeaters is being reviewed. Some additional financing may be required. The committee will consult with Greg on this. ACTION: C.J. will email Greg and Karl on this topic.
  - g. **Hospitality Team and Director's at Large:**
    - Don WA4AVU – No report
    - Bill AK4BL – No report
    - Jack N6UYB – No report
  - h. **Net Manager (Mary KG4OQA):** No report

- i. **North Carolina QSO Party (Marty W4MY):** No report
  - j. **Public Service Director (John AI4RT):** Seems to be going well with a large crop of volunteers supporting events. We need to consider net control training for events.
  - k. **RARS VE Coordinators (Joe WA4GIR and Liz KO4CK):** Resumption of VE testing beginning on August 12th 5:30 pm at RRBC; dry run on July 8
  - l. **RARS Webmaster (Hank K4HM):** Hank is reviewing using Yahoo calendar to post schedules and photos. ACTION: C.J. will send a note to Hank to find out who is the Yahoo group moderator.
  - m. **RARSFest Chair (John AI4RT/Chuck W3WZN):** No Report
  - n. **W4DW/W4RNC Trustee (Jeff AC4ZO):** No Report
7. **Old business:**
- a. Maker Faire: Karl will make a presentation to the board on Maker Faire.
8. **New business:**
- a. Email lists—Karl W4CHX made the following motion: “The RARSboard-I list will include all current board members. Any additional people will be added on a case-by-case basis until December 31 of that year.” Bob K4YXM seconded. The motion carried.
9. **Additional Business:** None

**Adjournment (CJ NC4CJ):** The meeting was adjourned at 9:56 p.m.



*Murray Merner, K4MHM, presents two donated books, the ARRL Handbook and the Technician License Manual to librarian Laurie Williams at the NCSU main campus library on August 11, 2014*

## Field Day Lost and Found

Beth Carroll, KF4QMR, reports: “As always, we really enjoyed hosting the 2014 Field Day. RARS is a great bunch of people” But...she and Jim, N4CAE, have some unclaimed items that they would like to reunite with their owners:

- ♦ An **Orvis hat** was left on a fence post this year.
- ♦ A **nice plastic drink container** was left last year.
- ♦ A **double shepherd’s hook** was left two years ago.



They will hold onto the items until they’re claimed. Please contact them at 919-362-6334 and n4cae@aol.com to retrieve your items.

## Johnston County ARES Installs VHF WINLINK System

*By Michael Callam, KD4UJC*

With generous help from the Carolina 440 UHF Link System, Johnston County ARES has completed the installation of a county-wide VHF WINLINK system.

The system allows sending and receiving of email using Amateur Radio and covers all of Johnston County and parts of the surrounding Counties. It consists of two fixed and one mobile WINLINK gateway, two packet nodes located at commercial repeater sites, and several transportable clients.

# Minutes

## General Membership Meeting

### *Raleigh Amateur Radio Society*

### *August 12, 2014*

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1. **Call to order:** C.J. NC4CJ called the meeting to order at 7:35 p.m. There were 53 people in attendance
2. **Guests:** Nathan Barnes and Tom Theriot who just passed their Tech exam. David KK4QEH and David Johnson (no call sign).
3. **Approval of minutes:** The minutes of the previous meeting were not available for consideration for approval.
4. **Secretary's report (Bob K4YXM):** no report
5. **Treasurer's report (Greg KE4PAX):** Greg KE4PAX reviewed our assets and summarized income and expenses to date. If anyone has any questions, please contact Greg KE4PAX or C.J. NC4CJ for further information.
6. **Door Prizes:** Wilber WD4RDT and Greg KE4PAX
7. **Reports and announcements from RARS Board members and others:**
  - a. **Public Service:** John AI4RT asked people to review the schedule on the RARS website and sign up for events.
  - b. **Education:** Murray K4MHM Reported that the General Class course is completing this Saturday with an exam session in the afternoon. An Extra Class is planned for October. He is working on establishing an "Elmers" list for new members. The plan is to establish this list on the RARS web site.
  - c. **Section Mgr. Report:** Karl W4ACHX reported on HR4969. Karl stated that this report and request was intended for ARRL members only. ARRL members were urged to express their support for HR 4969 to their congressional representatives.
  - d. **Repeater Chair:** Karl W4CHX. Repairs and upgrades of shack at Bayleaf are complete. All RARS repeaters and controllers have been configured. Karl reviewed status of interlink radios needed to update the "64" and "13" repeaters. These machines will not be updated and installed until this is resolved. The machine at Bayleaf will be installed and made operational first.
  - e. **NC QSO party:** Marty W4MY reported that there is an opening on the committee. Anyone interested in being on the NCQP committee should contact Marty.
  - f. **New Bern MS bicycle ride:** Mandy and Caroline from the MS Society expressed thanks for RARS support of the ride and encouraged everyone who could participate to do so.
8. **Any other business:** None.
9. **Program:** Frank N3FRP conducted a program on WINLINK.
10. **Adjournment:** The meeting was adjourned at approximately 8:44 p.m.

## LOCAL AMATEUR RADIO NETS

The **Apex Emergency Response Communications Net** meets weekly each Sunday at 9 p.m. on the 146.640 repeater. The purpose of the net is to assist ham radio operators in preparing to respond to emergencies, test their equipment, improve operating skills, pass traffic, and to provide those with a common interest an opportunity to meet. The Apex ERC Net provides amateur radio emergency communications for The Church of Jesus Christ of Latter-Day Saints' disaster relief efforts. All stations are invited to participate in this net.

Please join us on the **Carolina 440 Net** every Monday night at 7:30 p.m. This ragchew net utilizes the Carolina 440 UHF Link Repeater System. Comprised of the Raleigh, Down East, and Coastal Wilmington link systems, there are currently 19 repeaters on the system, covering 21,168 square miles. For a list of these repeaters, please visit [www.carolina440.net](http://www.carolina440.net).

Please join us each Tuesday at 9:15 p.m. on the 146.880 repeater for the **Central Carolina SKYWARN** net. On each net there are announcements, check-ins by county, and often a program or training spot. Check us out at [www.centralcarolinaskywarn.net](http://www.centralcarolinaskywarn.net).

The **Ham Public Service Net** meets every Wednesday at 7:30 p.m. and provides a forum and discussion platform for area clubs and individual hams to connect with and learn from other local hams who are interested in Ham Public Service. The HPSN is utilizing the Carolina 440 UHF Link System. The repeaters are also accessible through IRLP Reflector 9210, node 4270. The Ham Public Service North Carolina Yahoo Groups address is: [www.groups.yahoo.com/group/hpsnc](http://www.groups.yahoo.com/group/hpsnc).

The **PCTN (Piedmont Costal Traffic Net)** meets daily at 9 p.m. on the 146.880 repeater. The purpose of the net is to handle/pass NTS formal messages. Amateur stations are encouraged to check in and participate. The backup repeater is the 147.105 (PL tone 82.5).

The **RARS Technical & Trader's Net** is held on Saturday evenings on the 146.640 repeater at 8:00 p.m.

Join us every evening, except Saturdays, at 8 p.m. on the 146.640 repeater for the **RARS Two-Meter Net**. You can give a ragchew, check in and out (this counts for our total numbers reported to the ARRL!), make announcements, and pass traffic. We also offer National Traffic System traffic training. All licensed stations are welcome to participate in the net as often as they can. This net is also a great way to learn about amateur radio if you are newly licensed!

The **VOIP Hurricane Net** is held Sundays at 00:00 UTC on the 146.775 repeater with a tone of 88.5 (IRLP node 4260). For information about activation details, go to [www.voipwx.net](http://www.voipwx.net).

The **Wake County AUXCOMM Training Net** meets Thursdays at 9:15 p.m. on the 146.88 repeater. This net provides amateur radio operators information and training related to emergency communications and for our served agencies, such as Wake County Emergency Management. Please join us. For more information please visit <http://wake.nc.auxcomm.us/>.



## Want to be a Published Writer?

Do you like building ham radio equipment? Have figured out a way to get an antenna up in a neighborhood with covenants and restrictions? Did you participate in a marathon or bike-a-thon? How about sharing your interests, knowledge, and experience with other hams in the *Exciter*? We need both technical and non-technical articles for the *Exciter*. Short or long, we'll consider just about anything amateur radio-related.

To submit an article, just email your piece to the Editor ([editor@rars.org](mailto:editor@rars.org)). Please feel free to attach any appropriate pictures or graphics. Be sure to include caption information about the images and identify the people in photographs. And always obtain their permission to use their image.

We look forward to promoting our hobby and sharing information! Break out those pens, pencils, or keyboards and get writing!



## RARS Classifieds

**RARS Members:** [Post](#) a new 30 day listing or [Edit](#) your current listings at [www.rars.org/classifieds.php](http://www.rars.org/classifieds.php). The items below were listed within the last 30 days.

### Yaesu FT-411 2 meter HT

Posted September 3rd, 2014

by: AJ4HK

Contact: [aj4hk@hotmail.com](mailto:aj4hk@hotmail.com)

#### **NEW** Lower Price

have a Yaesu FT-411 2 meter HT,

comes with ant., battery, PA-6 mobile dc adapter/charger for 7.2v batt. packs, also mmb-32a mobile hanger bracket and copy of manual, no box.

Asking \$50.00. Or reasonable offer.

919-526-2860

Dennis

aj4hk

Want to purchase a “new” but used piece of ham equipment? Do you want to sell some gear? Browse the RARS classifieds for amateur radio equipment at <http://rars.org/classifieds.php>.

RARS members may post notices about equipment they are selling. Posts last for 30 days and are editable at any time.

Using our classifieds is a great way for buyers to search for available items and for sellers to reach a local, targeted audience.

